



Emerald Network in the Republic of Moldova

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Objective and Purpose

- ❑ The overall objective of Emerald Network is to protect the biodiversity in the ENPI east countries and to implement the CBD.
- ❑ The purpose is to implement the CBD programme of work on protected areas and of the EU's principles and the Bern Convention concerning the protection of habitats and species in the ENPI east countries.
- ❑ The Joint Programme aims at identifying Areas of Special Conservation Interest (all potential sites) to be part of the Emerald Network in Moldova.

Overall Emerald Project Results in Moldova 2009-2011

- ❑ **Review of Moldovan Legislation on Environment, Soil, Water, agriculture;**
- ❑ **Distribution per biogeographical region in Moldova of all species and habitats of Resolutions No. 4 (1996) and No. 6 (1998) of the Bern Convention and Annex I of the Habitats Directive;**
- ❑ **Distribution maps of selected species and habitats in GIS,**
- ❑ **Sites database for the sites listed with all ecological data filled in;**
- ❑ **Digital boundaries for all sites in GIS;**
- ❑ **National Emerald Data base and GIS elaborated and available in EUNIS biodiversity database via www.eionet.europa.eu;**
- ❑ **Checking and providing comments on the database for all species (619) to be added to appendices of the Bern Convention proposed by 7 countries;**
- ❑ **National Emerald Workshops – April 2009, February 2010, February-March 2011;**
- ❑ **Proposed 14 species of plants in Moldova to be added to the Bern Convention;**
- ❑ **Preparation of brochure on Emerald Project in Moldova for publication (expected in November).**

Database for plant species

- ❑ A total of **9 plant species** included in database: *Colchicum fominii*, *Crambe tataria*, *Cypripedium calceolus*, *Genista tetragona*, *Luronium natans*, *Pulsatilla grandis*, *Schivereckia podolica*, *Serratula lycopifolia*, *Thesium ebracteatum*.
- ❑ Populational and biogeographic information
- ❑ GIS maps elaborated: in 2010 – for 4 species, in 2011 – for 5 plant species

Database for animal species

- Total **74 animal species**, including: birds – 51, mammals – 11, amphibians – 3, fish – 3, reptiles – 3, nevertebrates – 3.
- For them following data were presented: ecological information, populational and biogeographical information, localization
- GIS distribution maps elaborated: in 2010 – for 39 species, in 2011 – for 35

Habitats according to Res.4 of Bern convention

- ❑ Total described in Moldova – **19 habitat types**
- ❑ In 2010 – 12 habitats and in 2011 – 7 described
- ❑ Ecological description, localization in natural areas provided
- ❑ GIS maps elaborated
- ❑ EUNIS classification

Proposed new species to be included in Res.6 of Bern Convention

- List of proposed species revised
- **7 plant species** proposed to be included to Appendix 1 of the Bern Convention
- List of plant species proposed: *Gladiolus imbricatus* L., *Paeonia peregrina* Mill, *Ophioglossum vulgatum* L., *Koeleria moldavica* M.Alexeenko, *Epipactis palustris* (L.) Crantz, *Orchis palustris* Jacq., *Orchis purpurea* Huds.

Database on proposed species to be added to the Bern Convention

- ❑ A data base on proposed species to be added to the appendices of the Bern Convention by the group of 7 countries, a total of **619 species** have been revised for Moldova.
- ❑ The species which are met both in Moldova and neighboring countries were identified. Among them: **Plants – 36, insects – 12, birds – 10, fish – 7, mammals – 3, amphibians and reptiles – each 1.**
- ❑ The comments have been provided on species identified in Moldova

Emerald Habitats Types in Moldova

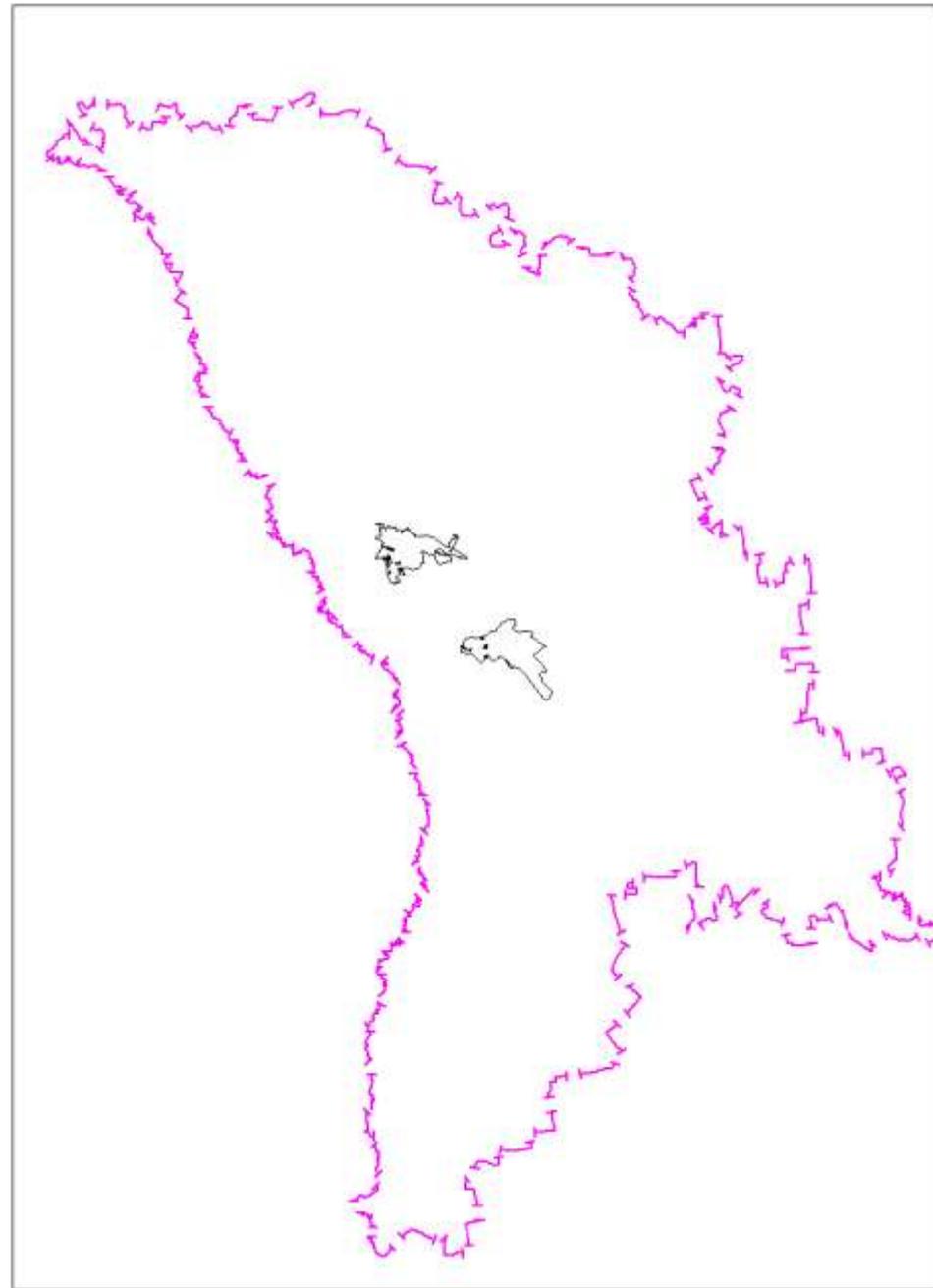
A2.5512	Continental glasswort swards	Pajisti continentale cu ierburi
F4.1	European wet healths	Ierburi europene de balta
E1.2	Continental steppes	Stepe continentale
E3.4	Eutropic humid grasslands	Pasuni eutrofice umede
E2.25	Continental meadows	Lunci continentale
G1.6	Beech forests	Paduri de fag
G1A1	Oak-hornbeam forests	Paduri de stejar si carpen
G1A4	Mixed ravine and slope forests	Paduri mixte de panta si valcele
G1.11	Riparian willow formations	Formatiuni riverane de salcie
G1.21	Middle European stream ash-alder woods	Paduri de frasin si arin central europene
G1.221	Great medio-European fluvial forests	Sectoare compacte forestiere fluviale centra europene
G1.223	South-east European ash-oak-alder forests	Paduri sud-est europene de frasin, stejar si arin
G1.36	Ponto-sarmatic mixed poplar riverine forest	Paduri pontico-sarmatice riverane mixte de plop
G1.4115	Eastern Carpathian alder swamp woods	Paduri est carpatice de arin
D5.2	Fen-sedge beds	Mlastini cu straturi de rogoz
D4.1	Rich fens	Mlastini abundente
D2.226	Peri-Danubian black-white-star sedge fens	Mlastini peri-dunarene cu rogoz
H1	Caves	Pestere
X18	Wooded steppe.	Stepe impadurite

Beech forest habitat in Moldova

Included within two sites:

Bahmut-Hirjauca and Codrii Straseni.

This habitat type is state-protected in the “Codrii”.



Protected areas proposed to be included in EMERALD network

- A total of **42 sites proposed**, including the state-protected areas, adjacent zones and areas with non-protection status
- Total area in Moldova proposed to Emerald network is **3800,1 sq.km**
- This constitutes **11,23%** of total surface of country

Examples of Moldova Emerald sites

- Forests: **Prutul de Jos; Padurea Domneasca, Plaiul Fagului, Codru, Bahmut-Hirjauca, Codrii Orheiului, Codrii Tigheci, Codrii Strasenilor**
- Steppes: **Stepa Baltului, Stepa Bugeacului**
- Forest-meadow: **Unguri-Holosnita, Prutul de Mijloc, Rezina**
- Forest-caves: **Caracuseeni, Stincile Nistrene**
- Forest-swamp: **Lacurile Prutului de Jos**

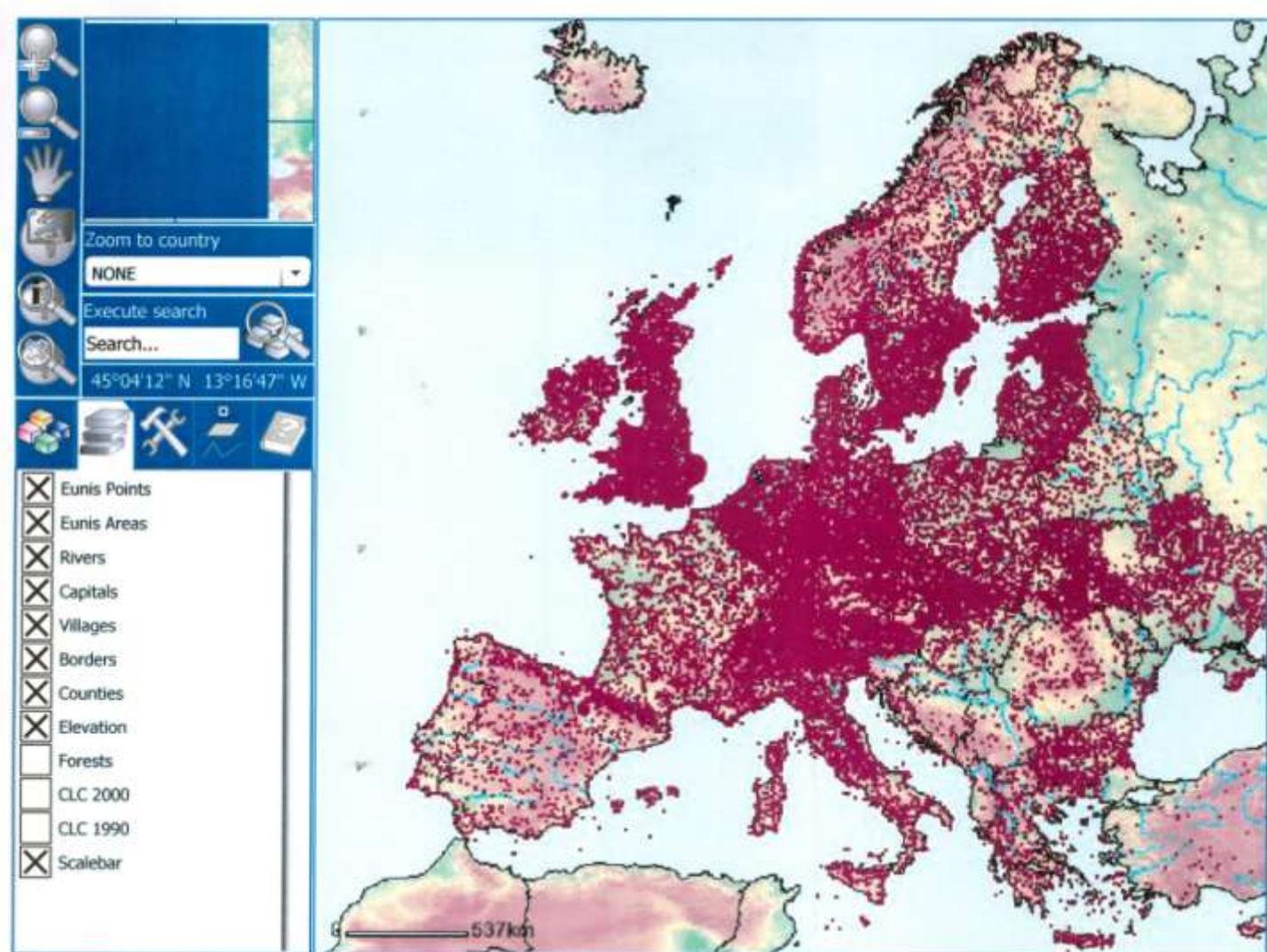
Example of Site: Bahmut-Hirjauca

- Area – 13400 ha
- Mean altitude – 280 m
- Continental biogeographical region
- Three habitat types:
G1.6; G1.A1; G1.A4
- Species under the BC:
 - Birds – 13
 - Amphibians/reptiles – 2
 - Plants – 1
- Species proposed to be included the BC: plants – 2
(Red Book of Moldova)
- Protected areas within the site:
Plaiul Fagului, Cornesti,
Bahmut-Leurdoaia, Bogus,
Scafareni.



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- All the data related to EMERALD have been placed on EUNIS European information system (<http://eunis.eea.europa.eu/gis-tool.jsp>) and the EIONET European database (<http://cdr.eionet.europa.eu/>).

EUNIS MAP EUROPE



EUNIS MAP MOLDOVA

